

# WEST Search History

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☐ 1. Document ID: US 6927215 B2

Using default format because multiple data bases are involved.

L2: Entry 1 of 19

File: USPT

Aug 9, 2005

US-PAT-NO: 6927215

DOCUMENT-IDENTIFIER: US 6927215 B2

TITLE: Heterocyclic fluoroalkenyl thioethers and the use thereof as pesticides (I)

DATE-ISSUED: August 9, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kraatz; Udo	Leverkusen			DE
Gallenkamp; Bernd	Wuppertal			DE
Rieck; Heiko	Foy-les-Lyon			FR
Marhold; Albrecht	Leverkusen			DE
Wolfrum; Peter	Monheim			DE
Andersch; Wolfram	Bergisch Gladbach			DE
Erdelen; Christoph	Leichlingen			DE
Losel; Peter	Leverkusen			DE
Turberg; Andreas	Haan			DE
Hansen; Olaf	Langenfeld			DE
Harder; Achim	Koln			DE

US-CL-CURRENT: 514/211.01; 514/222.2, 514/222.5, 514/360, 514/362, 540/544, 544/5, 548/123

Full	Title	Citation	Front	Review	Classification	Date	Reference	Examiner	Attorney	Claims	KWIC	Draw De
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☐ 2. Document ID: US 6908937 B2

L2: Entry 2 of 19

File: USPT

Jun 21, 2005

US-PAT-NO: 6908937

DOCUMENT-IDENTIFIER: US 6908937 B2

TITLE: Heterocyclic fluoroalkenyl thioethers (II)

DATE-ISSUED: June 21, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kraatz; Udo	Leverkusen			DE
Gallenkamp; Bernd	Wippertal			DE
Marhold; Albrecht	Leverkusen			DE
Wolfrum; Peter	Monheim			DE
Andersch; Wolfram	Bergisch Gladbach			DE
Erdelen; Christoph	Leichlingen			DE
Turberg; Andreas	Leverkusen			DE
Hansen; Olaf	Langenfeld			DE
Harder; Achim	Koln			DE

US-CL-CURRENT: 514/363; 544/53, 548/136, 548/142, 548/144

## ABSTRACT:

The present invention relates to novel heterocyclic fluoroalkenyl thioethers of the formula (I) ##STR1##

in which X represents hydrogen, halogen or alkyl, m represents integers from 3 to 10, n represents 0, 1 or 2, Het represents the groups ##STR2##

where R.<sup>sup.1</sup> represents hydrogen; mercapto; optionally halogen-substituted alkyl, alkoxy, alkylthio, alkylsulphanyl, alkylsulphonyl or alkenyl; optionally substituted aryl; or optionally substituted heterocyclyl, Y represents oxygen or sulphur, and R.<sup>sup.2</sup> represents hydrogen, alkyl or optionally substituted aryl,

and to processes for their preparation and to their use as pesticides.

10 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachment	Claims	KWIC	Draw De
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☐ 3. Document ID: US 6875766 B2

L2: Entry 3 of 19

File: USPT

Apr 5, 2005

US-PAT-NO: 6875766

DOCUMENT-IDENTIFIER: US 6875766 B2

TITLE: Use of riboflavin and flavin derivatives as chitinase inhibitors

DATE-ISSUED: April 5, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Turberg; Andreas	Haan			DE
Gutsmann; Volker	Leichlingen			DE
Omura; Satoshi	Tokyo			JP
Shiomi; Kazuro	Tokyo			JP

US-CL-CURRENT: 514/250

## ABSTRACT:

The invention relates to the use of riboflavin and of flavin derivatives with chitinase-inhibitory action for controlling arthropods, nematodes and chitin-containing fungi.

4 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 4. Document ID: US 6710045 B2

L2: Entry 4 of 19

File: USPT

Mar 23, 2004

US-PAT-NO: 6710045

DOCUMENT-IDENTIFIER: US 6710045 B2

TITLE: Heterocyclic fluoroalkenyl thioethers and the use thereof as pesticides (IV)

DATE-ISSUED: March 23, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kraatz; Udo	Leverkusen			DE
Gallenkamp; Bernd	Wuppertal			DE
Marhold; Albrecht	Monheim			DE
Wolfrum; Peter	Monheim			DE
Andersch; Wolfram	Bergish Gladbach			DE
Erdelen; Christoph	Leichlingen			DE
Turberg; Andreas	Haan			DE
Hansen; Olaf	Langenfeld			DE
Harder; Achim	Koln			DE

US-CL-CURRENT: 514/247, 544/239, 544/315, 544/318, 546/294, 546/303, 548/127,  
548/165, 548/166, 548/173, 548/182, 548/186, 548/221

## ABSTRACT:

The present invention relates to novel heterocyclic fluoroalkenyl thioethers of the formula (I) ##STR1## in which m represents integers from 3 to 10, n represents 0, 1 or 2 and Het represents the following, in each case optionally substituted, groupings: ##STR2##

to processes for their preparation and to their use as pesticides.

11 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 6608129 B1

L2: Entry 5 of 19

File: USPT

Aug 19, 2003

US-PAT-NO: 6608129

DOCUMENT-IDENTIFIER: US 6608129 B1

TITLE: Polymer composites and methods for making and using same

DATE-ISSUED: August 19, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Koloski; Timothy S.	West Amherst	NY		
Vargo; Terrence G.	Kenmore	NY		

US-CL-CURRENT: 524/403, 524/430, 524/431, 524/433, 524/439, 524/502, 524/515,  
524/520, 524/544, 524/546

## ABSTRACT:

Composites which include a polymer matrix having natural free volume therein and an inorganic or organic material disposed in the natural free volume of the polymer matrix are disclosed. In addition, methods for making a composite are described. A polymer matrix having free volume therein is provided. The free volume is evacuated, and inorganic or organic molecules are infused into the evacuated free volume of the polymer matrix. The inorganic or organic molecules can then be polymerized under conditions effective to cause the polymerized inorganic or organic molecules to assemble into macromolecular networks. Alternatively, where the polymer matrix contains a functionality, the inorganic or organic molecules can be treated under conditions effective to cause the inorganic or organic molecules to interact with the polymer matrix's functionality. Use of the disclosed composites as photoradiation shields and filters, electromagnetic radiation shields and filters, antistatic layers, heterogeneous catalysts, conducting electrodes, materials having flame and heat retardant properties, components in the construction of electrolytic cells, fuel cells, and optoelectronic devices, and antifouling coatings is also described.

25 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: US 6559201 B2

L2: Entry 6 of 19

File: USPT

May 6, 2003

US-PAT-NO: 6559201

DOCUMENT-IDENTIFIER: US 6559201 B2

**\*\* See image for Certificate of Correction \*\***

TITLE: Antifouling coating composition

DATE-ISSUED: May 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Simendinger, III; William H.	Raleigh	NC		

US-CL-CURRENT: 523/122; 428/446, 524/230, 524/300, 524/322, 524/399, 524/400,  
524/403, 524/490, 524/494, 524/588, 524/95

ABSTRACT:

The antifouling composition of the present invention includes a glassy matrix formed by crosslinking a mixture of a silanol-terminated silicone and an alkoxy functionalized siloxane to provide an interpenetrating polymer network of glass and silicone and at least two materials capable of microphase separation, at least one of which is graftable to the glassy matrix.

95 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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☐ 7. Document ID: US 6476095 B2

L2: Entry 7 of 19

File: USPT

Nov 5, 2002

US-PAT-NO: 6476095

DOCUMENT-IDENTIFIER: US 6476095 B2

TITLE: Antifouling coating composition

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Simendinger, III; William H.	Raleigh	NC		

US-CL-CURRENT: 523/122; 524/230, 524/300, 524/322, 524/399, 524/463, 524/490,  
524/494, 524/588, 524/95

ABSTRACT:

The antifouling composition of the present invention includes a glassy matrix formed by crosslinking a mixture of a silanol-terminated silicone and an alkoxy-functionalized siloxane to provide an interpenetrating polymer network of glass and silicone and at least two materials capable of microphase separation, at least one of which is graftable to the glassy matrix. A primer composition is also provided and is a mixture of an epoxy, an alkoxy-functionalized siloxane and a silane capable of compatibilizing the epoxy and the alkoxy-functionalized siloxane; a

glassy matrix formed by crosslinking a mixture of a silanol-terminated silicone and an alkoxy-functionalized siloxane.

82 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw De
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☐ 8. Document ID: US 6410622 B1

L2: Entry 8 of 19

File: USPT

Jun 25, 2002

US-PAT-NO: 6410622

DOCUMENT-IDENTIFIER: US 6410622 B1

TITLE: Method of preventing fouling organisms in marine environments and polymer-bound nitric oxide/nitric oxide-releasing compositions usable therefor

DATE-ISSUED: June 25, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Endres; Gregory W.	Saline	MI	48176	

US-CL-CURRENT: 524/189; 523/122, 525/360, 525/376, 525/420, 525/437, 525/453, 525/454, 527/312

ABSTRACT:

A method of preventing fouling organisms in marine environments comprises the step of introducing into the marine environment in a predetermined form and in a sufficient amount an antifouling composition having as its effective ingredient a nitric oxide-releasing functional group of the diazeniumdiolate structure: ##STR1##

whereupon nitric oxide is controllably released into the marine environment to prevent at least one of the fouling organisms' propagation, ability to attach, and ability to function.

An antifouling composition consists essentially of an antifouling-acceptable carrier and a coprecipitation product of polylactide/glycolide and diethylenetriamine having the formula  $H_{.3}N^{+.}CH_{.2}CH_{.2}N(N_{.2}O_{.2})_{.sup.-1}CH_{.2}CH_{.2}NH_{.2}$ , wherein diethylenetriamine contains a nitric oxide-releasing functional group.

20 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequence	Attachments	Claims	KWIC	Draw De
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☐ 9. Document ID: US 6342386 B1



L2: Entry 9 of 19

File: USPT

Jan 29, 2002

US-PAT-NO: 6342386

DOCUMENT-IDENTIFIER: US 6342386 B1

TITLE: Methods for removing undesired growth from a surface

DATE-ISSUED: January 29, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Powers; Warren Paul	Jacksonville	FL	32225	
Selvig; Thomas Allan	Jacksonville	FL	32246	
Leavitt; Richard Irwin	Ponte Vedra Beach	FL	32082	

US-CL-CURRENT: 435/262; 424/93.1, 424/94.1, 424/94.2, 435/243, 435/262.5, 435/264, 435/821

## ABSTRACT:

Disclosed are compositions and/or paints containing hydrolytic enzyme(s), microorganism(s), or mixtures of the hydrolytic enzyme(s) and microorganism(s), wherein the microorganism or hydrolytic enzyme remove undesired growth from a surface. Such compositions and/or paints may contain a catalytically effective amount of an inorganic salt. Also disclosed are articles coated with the composition and/or paint. Finally, methods are disclosed for reducing fouling of a marine surface, for reducing marine corrosion, for limiting absorption of water by a marine surface, for reducing the coefficient of drag of a marine surface, removing marine growth from a marine surface, and for reducing mildew fungus on a marine surface.

19 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 10. Document ID: US 5919689 A

L2: Entry 10 of 19

File: USPT

Jul 6, 1999

US-PAT-NO: 5919689

DOCUMENT-IDENTIFIER: US 5919689 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Marine antifouling methods and compositions

DATE-ISSUED: July 6, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Selvig; Thomas Allan	Jacksonville	FL	32246	



Leavitt; Richard Irwin	Ponte Verda Beach	FL	32082
Powers; Warren Paul	Jacksonville	FL	32225

US-CL-CURRENT: 435/202; 106/14.22, 435/219, 435/252.1

## ABSTRACT:

Disclosed are marine antifouling compositions and/or paints containing, microorganism(s), or mixtures of hydrolytic enzyme(s) and microorganism(s), wherein the microorganism or hydrolytic enzyme reduce fouling of a surface coated by the marine antifouling composition and/or paint. Such compositions and/or paints may contain a catalytically effective amount of an inorganic salt. Also disclosed are articles coated with the composition and/or paint. Finally, methods are disclosed for reducing fouling of a marine surface, for reducing marine corrosion, for limiting absorption of water by a marine surface, for reducing the coefficient of drag of a marine surface, removing marine growth from a marine surface, and for reducing mildew fungus on a marine surface.

29 Claims, 6 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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☐ 11. Document ID: US 5770188 A

L2: Entry 11 of 19

File: USPT

Jun 23, 1998

US-PAT-NO: 5770188

DOCUMENT-IDENTIFIER: US 5770188 A

TITLE: Glucoxide derivatives for enzyme modification, lipid-coated enzymes, method of producing such enzymes and antifouling paint composition

DATE-ISSUED: June 23, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hamade; Ryoji	Kadoma			JP
Yamamori; Naoki	Tuzuki-gun			JP
Okahata; Yoshio	Kawasaki			JP

US-CL-CURRENT: 424/78.09; 106/16, 106/17, 106/18.32, 504/173, 514/625, 514/629, 564/201, 564/203

## ABSTRACT:

This invention is related to glucoxide derivatives for enzyme modification of the following general formula (1), to provide a lipid-coated enzyme showing high activity in organic solvents; antifouling paint compositions containing a lipid-coated enzyme being stable in organic solvents by coating with a C.sub.6 to C.sub.30 lipid, and a paint resin, to be capable of forming paint films having good antifouling activity and durability and allowing an enzyme to retain good stability

in the paint and in paint films; and self-polishing antifouling paint compositions containing an enzyme-susceptible resin and a lipid-coated enzyme capable of catalyzing the degradation of said resin and being stable in organic solvents by coating with a C.sub.6 to C.sub.30 lipid, to retain the antifouling effect for a prolonged period of time without adversely affecting the environment. ##STR1##

12 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 12. Document ID: US 5298060 A

L2: Entry 12 of 19

File: USPT

Mar 29, 1994

US-PAT-NO: 5298060  
DOCUMENT-IDENTIFIER: US 5298060 A

TITLE: Use of silicone resins and fluids to retard marine life buildup on submerged surfaces

DATE-ISSUED: March 29, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Harakal; Mark E.	Hamburg			DE
Nollen; Dieter R.	Ahrensburg			DE

US-CL-CURRENT: 106/15.05; 106/18.32, 106/18.35, 424/405, 424/78.09, 427/387,  
427/393, 514/63, 523/122, 524/261, 524/264

ABSTRACT:

A method for preventing or reducing the marine life buildup on a submerged surface by applying to the surface an antifouling coating composition comprising a combination of a silicone fluid and a silicone resin.

16 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw. De
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☐ 13. Document ID: US 4766113 A

L2: Entry 13 of 19

File: USPT

Aug 23, 1988

US-PAT-NO: 4766113  
DOCUMENT-IDENTIFIER: US 4766113 A

TITLE: Antimicrobial compositions and methods of using same

DATE-ISSUED: August 23, 1988

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
West; Michael H.	Memphis	TN		
Nagel; Fritz J.	Memphis	TN		

US-CL-CURRENT: 514/187; 514/191, 514/576

## ABSTRACT:

Our invention pertains to various new compositions, methods for using such compositions and products treated with such compositions. Our new compositions include, among other things, certain antimicrobial agents solubilized with certain disubstituted aryl compounds.

19 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 14. Document ID: US 4602011 A

L2: Entry 14 of 19

File: USPT

Jul 22, 1986

US-PAT-NO: 4602011

DOCUMENT-IDENTIFIER: US 4602011 A

TITLE: Antimicrobial compositions and methods of using same

DATE-ISSUED: July 22, 1986

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
West; Michael H.	Memphis	TN		
Nagel; Fritz J.	Memphis	TN		

US-CL-CURRENT: 514/187; 514/191, 514/576

## ABSTRACT:

Our invention pertains to various new compositions, methods for using such compositions and products treated with such compositions. Our new compositions include, among other things, certain antimicrobial agents solubilized with certain disubstituted aryl compounds.

19 Claims, 0 Drawing figures  
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 15. Document ID: US 4237114 A

L2: Entry 15 of 19

File: USPT

Dec 2, 1980

US-PAT-NO: 4237114

DOCUMENT-IDENTIFIER: US 4237114 A

TITLE: Method and composition for the long term controlled release of a non-persistent organotin pesticide from an inert monolithic thermoplastic dispenser

DATE-ISSUED: December 2, 1980

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cardarelli; Nathan F.	Barberton	OH		

US-CL-CURRENT: 514/493; 424/419

## ABSTRACT:

A method and composition for destroying pest insects in their aquatic stage and other pest-life forms over a sustained period of time, by the gradual and continuous release of an organotin substance from an inert thermoplastic medium. The composition comprises an organotin of extremely low water solubility bound in an ethylene-vinyl acetate copolymer, or an ethylene-propylene copolymer, in which said organotin is insoluble and in which said organotin is uniformly dispersed with an inert coleachant of moderate or low water solubility. When this formulation is brought into contact with water, the coleachant gradually solvates into the water creating and enhancing the development of porosity within the thermoplastic phase. Said organotin agent, interspersed within the thermoplastic matrix, contacts the entering water and egresses as molecular aggregates being washed through the pore system and into the external watery medium. Such aggregates, being toxic to mosquito larva, other insects and various other pestiferous life forms upon continuous exposure, lead to a condition of terminal chronic intoxication.

70 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 16. Document ID: WO 3087234 A1

L2: Entry 16 of 19

File: EPAB

Oct 23, 2003

PUB-NO: WO003087234A1

DOCUMENT-IDENTIFIER: WO 3087234 A1

TITLE: ANTIFOULING COMPOSITION COMPRISING AN ENZYME IN THE ABSENCE OF ITS SUBSTRATE

PUBN-DATE: October 23, 2003

## INVENTOR-INFORMATION:

NAME	COUNTRY
SCHNEIDER, IB	DK
ALLERMANN, KNUD	DK

INT-CL (IPC): C09 D 5/16  
EUR-CL (EPC): C09D005/16

## ABSTRACT:

CHG DATE=20031203 STATUS=O>The present invention in one aspect relates to a coating composition comprising at least one enzyme capable of acting on a compound, wherein said action results in the formation of an antifouling species comprising an antifouling activity, and wherein said compound does not form part of said coating composition. The coating composition preferably comprises at least one oxidase capable of acting on a compound, such as a substrate for said oxidase, wherein said action results in the formation of an antifouling species including an antimicrobial species comprising an antimicrobial activity. More preferred, the oxidase comprises an activity which results in the formation of a peroxide. The oxidase can be present in said coating composition in combination with one or more additional enzymes including, but not limited to, an esterase, including a lipase, an amidase, including a protease, and a polysaccharide degrading enzyme, wherein said one or more additional enzyme(s), alone or in any combination, can be included in the presence or absence of one or more substrates for one or more of said enzymes.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 17. Document ID: MX 226050 B, US 5919689 A, WO 200050521 A1, AU 9927916 A, BR 9917140 A, NO 200103874 A, EP 1161502 A1, CN 1337982 A, KR 2001108263 A, JP 2002537470 W, NZ 513846 A, MX 2001008609 A1, AU 770648 B2, AU 2004202283 A1, EP 1161502 B1, DE 69922415 E, ES 2232115 T3

L2: Entry 17 of 19

File: DWPI

Feb 3, 2005

DERWENT-ACC-NO: 1999-403960

DERWENT-WEEK: 200565

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TITLE: Marine antifouling composition useful e.g. for protecting boats' hulls from fouling and corrosion, comprises polymer resin and enzymes and/or microorganisms

INVENTOR: LEAVITT, R I; POWERS, W P ; SELVIG, T A ; LEAVITT, R

PRIORITY-DATA: 1996US-0739272 (October 29, 1996), 1999WO-US04193 (February 26, 1999), 1999AU-0027916 (February 26, 1999), 1999BR-0017140 (February 26, 1999), 2001NO-0003874 (August 8, 2001), 1999EP-0908499 (February 26, 1999), 1999CN-0816367 (February 26, 1999), 2001KR-0710883 (August 24, 2001), 2000JP-0601089 (February 26, 1999), 1999NZ-0513846 (February 26, 1999), 2001MX-0008609 (August 24, 2001), 2004AU-0202283 (May 26, 2004), 1999DE-0622415 (February 26, 1999)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
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<u>MX 226050 B</u>	February 3, 2005		000	C09D005/16
<u>US 5919689 A</u>	July 6, 1999		015	C12N009/28
<u>WO 200050521 A1</u>	August 31, 2000	E	000	C09D005/16
<u>AU 9927916 A</u>	September 14, 2000		000	C09D005/16
<u>BR 9917140 A</u>	November 6, 2001		000	C09D005/16
<u>NO 200103874 A</u>	October 26, 2001		000	C09D000/00
<u>EP 1161502 A1</u>	December 12, 2001	E	000	C09D005/16
<u>CN 1337982 A</u>	February 27, 2002		000	C09D005/16
<u>KR 2001108263 A</u>	December 7, 2001		000	C09D005/16
<u>JP 2002537470 W</u>	November 5, 2002		043	C09D005/16
<u>NZ 513846 A</u>	February 28, 2003		000	C09D005/16
<u>MX 2001008609 A1</u>	June 1, 2003		000	C09D005/16
<u>AU 770648 B2</u>	February 26, 2004		000	C09D005/16
<u>AU 2004202283 A1</u>	June 17, 2004		000	C09D005/16
<u>EP 1161502 B1</u>	December 1, 2004	E	000	C09D005/16
<u>DE 69922415 E</u>	January 5, 2005		000	C09D005/16
<u>ES 2232115 T3</u>	May 16, 2005		000	C09D005/16

69922415 E , ES 2232115 T3 INT-CL (IPC): B05 D 5/00; B05 D 7/00; B05 D 7/14; C04 B 9/02; C09 D 0/00; C09 D 5/16; C09 D 201/00; C12 N 1/12; C12 N 9/28; C12 N 9/50

ABSTRACTED-PUB-NO: US 5919689A  
BASIC-ABSTRACT:

NOVELTY - Marine antifouling composition comprising a base material, at least one amyolytic or proteolytic enzyme and at least one microorganism, is new.

DETAILED DESCRIPTION - Marine antifouling composition (A) comprises:

(a) a polymer resin base; and

(b) at least one amyolytic or proteolytic enzyme and at least one microorganism which produces at least one amyolytic or proteolytic enzyme mixed with the base.

An INDEPENDENT CLAIM is provided for a marine antifouling paint comprising (A) and a pigment.

ACTIVITY - Antifouling.

MECHANISM OF ACTION - None given.

USE - The composition is useful for reducing fouling of marine surfaces, limiting absorption of water by marine surfaces, reducing the coefficient of drag of marine surfaces, reducing mildew fungus, reducing the tendency of a propeller to cavitate under a load and for reducing marine corrosion including surface corrosion and inter granular corrosion (claimed). The composition is applied to the surface to form a coating which reduces fouling, reduces porosity and reduces adsorption of corrosive molecules (claimed). Surfaces which may be protected include ships' hulls and drive systems, pilings, marine markers, undersea conveyances e.g. cabling and pipes, bulkheads and cooling towers. The composition may also be used for removing marine growth from a surface. Organisms which can be controlled include crustaceans and other marine hard growth e.g. tube worms, oysters, mussels, clams, bryozoans and barnacles, and soft growth e.g. algae, bryozoans, hydroids, sabellids and *delaya marina*.

ADVANTAGE - The composition does not contain toxic materials e.g. heavy metal biocides, used in prior art compositions which are harmful to the environment.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Revised	Abstract	Claims	KWIC	Draw. Des.
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☐ 18. Document ID: GB 2306473 A, GB 2306473 B, JP 09118842 A, JP 09118844 A, JP 09124570 A, US 5770188 A

L2: Entry 18 of 19

File: DWPI

May 7, 1997

DERWENT-ACC-NO: 1997-229317

DERWENT-WEEK: 199902

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TITLE: Glucoside derivatives for enzyme modification - are useful for producing a lipid-coated enzyme in antifouling paint compositions

INVENTOR: HAMADE, R; OKAHATA, Y ; YAMAMORI, N

PRIORITY-DATA: 1995JP-0278722 (October 26, 1995), 1995JP-0278709 (October 26, 1995), 1995JP-0278718 (October 26, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>GB 2306473 A</u>	May 7, 1997		029	C07C235/06
<u>GB 2306473 B</u>	December 23, 1998		000	C07C235/06
<u>JP 09118842 A</u>	May 6, 1997		006	C09D005/14
<u>JP 09118844 A</u>	May 6, 1997		005	C09D005/16
<u>JP 09124570 A</u>	May 13, 1997		004	C07C235/06
<u>US 5770188 A</u>	June 23, 1998		000	A61K031/74

INT-CL (IPC): A61 K 31/74; C07 C 235/06; C09 D 5/14; C09 D 5/16; C09 D 7/12; C09 D 101/00; C09 D 167/00; C12 N 9/00

ABSTRACTED-PUB-NO: GB 2306473A

BASIC-ABSTRACT:

Glucoside derivatives for enzyme modification of formula (I) are new. R1, R2 = 6-20C hydrocarbon. Also claimed are: (1) a lipid-coated enzyme coated with (I) for enzyme modification; (2) production of lipid-coated enzymes comprising dissolving (I) in hydrophilic solvent and adding this solution dropwise into a buffer solution containing an enzyme; and (3) an anti-fouling paint composition comprising a lipid stable enzyme, stable in organic solvents as a result of coating with a lipid having 6-30C and a paint resin.

USE - (I) is useful for producing lipid-coated enzymes in antifouling paint compositions. Proteins and polysaccharides involved in the attachment of marine organisms can be degraded. Cell walls of attaching organisms may also be degraded.

ADVANTAGE - The paint resin used is enzyme-susceptible and can be degraded by the lipid-coated enzyme, to form a self-polishing antifouling composition.

ABSTRACTED-PUB-NO:

GB 2306473B EQUIVALENT-ABSTRACTS:



Glucoside derivatives for enzyme modification of formula (I) are new. R1, R2 = 6-20C hydrocarbon. Also claimed are: (1) a lipid-coated enzyme coated with (I) for enzyme modification; (2) production of lipid-coated enzymes comprising dissolving (I) in hydrophilic solvent and adding this solution dropwise into a buffer solution containing an enzyme; and (3) an anti-fouling paint composition comprising a lipid stable enzyme, stable in organic solvents as a result of coating with a lipid having 6-30C and a paint resin.

USE - (I) is useful for producing lipid-coated enzymes in antifouling paint compositions. Proteins and polysaccharides involved in the attachment of marine organisms can be degraded. Cell walls of attaching organisms may also be degraded.

ADVANTAGE - The paint resin used is enzyme-susceptible and can be degraded by the lipid-coated enzyme, to form a self-polishing antifouling composition.

US 5770188A

Glucoside derivatives for enzyme modification of formula (I) are new. R1, R2 = 6-20C hydrocarbon. Also claimed are: (1) a lipid-coated enzyme coated with (I) for enzyme modification; (2) production of lipid-coated enzymes comprising dissolving (I) in hydrophilic solvent and adding this solution dropwise into a buffer solution containing an enzyme; and (3) an anti-fouling paint composition comprising a lipid stable enzyme, stable in organic solvents as a result of coating with a lipid having 6-30C and a paint resin.

USE - (I) is useful for producing lipid-coated enzymes in antifouling paint compositions. Proteins and polysaccharides involved in the attachment of marine organisms can be degraded. Cell walls of attaching organisms may also be degraded.

ADVANTAGE - The paint resin used is enzyme-susceptible and can be degraded by the lipid-coated enzyme, to form a self-polishing antifouling composition.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 19. Document ID: US 2978338 A

L2: Entry 19 of 19

File: USOC

Apr 4, 1961

US-PAT-NO: 2978338

DOCUMENT-IDENTIFIER: US 2978338 A

TITLE: Antifouling coatings

DATE-ISSUED: April 4, 1961

INVENTOR-NAME: GREATHOUSE GLENN A

US-CL-CURRENT: 106/18.32; 106/169.11, 106/18.34

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 1. Document ID: US 20050256173 A1

L4: Entry 1 of 17

File: PGPB

Nov 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050256173

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050256173 A1

TITLE: Heterocyclic fluoroalkenyl thioethers and the use thereof as pesticides (I)

PUBLICATION-DATE: November 17, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kraatz, Udo	Leverkusen		DE
Gallenkamp, Bernd	Wuppertal		DE
Rieck, Heiko	Foy-les-Lyon		FR
Marhold, Albrecht	Leverkusen		DE
Wolfrum, Peter	Monheim		DE
Andersch, Wolfram	Bergisch Gladbach		DE
Erdelen, Christoph	Leichlingen		DE
Losel, Peter	Leverkusen		DE
Turberg, Andreas	Haan		DE
Hansen, Olaf	Langenfeld		DE
Harder, Achim	Koln		DE

US-CL-CURRENT: [514/360](#); [548/123](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 2. Document ID: US 20050215772 A1

L4: Entry 2 of 17

File: PGPB

Sep 29, 2005

PGPUB-DOCUMENT-NUMBER: 20050215772

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050215772 A1

TITLE: Furanone derivatives and methods of making same

PUBLICATION-DATE: September 29, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kumar, Naresh	New South Wales		AU

US-CL-CURRENT: 530/409; 536/27.1, 536/28.1, 548/543

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 3. Document ID: US 20050148592 A1

L4: Entry 3 of 17

File: PGPB

Jul 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050148592

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050148592 A1

TITLE: Use of riboflavin and flavin derivatives as chitinase inhibitors

PUBLICATION-DATE: July 7, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Turberg, Andreas	Haan		DE
Gutsmann, Volker	Leichlingen		DE
Omura, Satoshi	Tokyo		JP
Shiomi, Kazuro	Tokyo		JP

US-CL-CURRENT: 514/250

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 4. Document ID: US 20050147579 A1

L4: Entry 4 of 17

File: PGPB

Jul 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050147579

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050147579 A1

TITLE: Antifouling composition comprising an enzyme in the absence of its substrate

PUBLICATION-DATE: July 7, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Schneider, Ib	Copenhagen		DK
Allermann, Knud	Rungsted Kyst		DK

US-CL-CURRENT: 424/78.09; 424/94.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw De
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☐ 5. Document ID: US 20050014650 A1

L4: Entry 5 of 17

File: PGPB

Jan 20, 2005

PGPUB-DOCUMENT-NUMBER: 20050014650

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050014650 A1

TITLE: Delta 1-pyrrolines used as pesticides

PUBLICATION-DATE: January 20, 2005

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Seitz, Thomas	Langenfeld		DE
Fusslein, Martin	Dusseldorf		DE
Jansen, Johannes Rudolf	Monheim		DE
Kraatz, Udo	Leverkusen		DE
Erdelen, Christoph	Leichlingen		DE
Lubos-Erdelen, Angelika	Leichlingen		DE
Turberg, Andreas	Haan		DE
Hansen, Olaf	Leichlingen		DE

US-CL-CURRENT: 504/283; 544/141, 544/373, 544/60, 546/208, 548/577

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw De
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☐ 6. Document ID: US 20040251197 A1

L4: Entry 6 of 17

File: PGPB

Dec 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040251197

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040251197 A1

TITLE: Organic waste treatment

PUBLICATION-DATE: December 16, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Chandler, Ross Gordon	Victoria		AU

US-CL-CURRENT: 210/610

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw De
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☐ 7. Document ID: US 20040127525 A1

L4: Entry 7 of 17

File: PGPB

Jul 1, 2004

PGPUB-DOCUMENT-NUMBER: 20040127525

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040127525 A1

TITLE: Heterocyclic fluoroalkenyl thioethers and the use thereof as pesticides (I)

PUBLICATION-DATE: July 1, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kraatz, Udo	Leverkusen		DE
Gallenkamp, Bernd	Wuppertal		DE
Rieck, Heiko	Foy-les-Lyon		FR
Marhold, Albrecht	Leverkusen		DE
Wolfrum, Peter	Monheim		DE
andersch, Wolfram	Bergisch Galdbach		DE
Erdelen, Christoph	Leichlingen		DE
Losel, Peter	Leverkusen		DE
Turberg, Andreas	Haan		DE
Hansen, Olaf	Langenfeld		DE
Harder, Achim	Koln		DE

US-CL-CURRENT: 514/362; 548/123

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 8. Document ID: US 20040116477 A1

L4: Entry 8 of 17

File: PGPB

Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040116477

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040116477 A1

TITLE: 2-Heteroaryl-3,4-dihydro-2h-pyrrole derivatives and the use thereof as pesticides

PUBLICATION-DATE: June 17, 2004

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Plant, Andrew	Berkshire		GB
Fischer, R?uuml;diger	Pulheim		DE
Seitz, Thomas	Langenfeld		DE
Erdelen, Christoph	Leichlingen		DE

DE  
DE

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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Jun 3, 2004

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw D
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Jan 29, 2004

NAME	CITY	STATE	COUNTRY
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Koloski, Timothy S.	West Amherst	NY	US
Vargo, Terrence G.	Kenmore	NY	US

US-CL-CURRENT: 524/434

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 11. Document ID: US 20030207869 A1

L4: Entry 11 of 17

File: PGPB

Nov 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030207869  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030207869 A1

TITLE: Heterocyclic fluoroalkenyl thioethers (II)

PUBLICATION-DATE: November 6, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kraatz, Udo	Leverkusen		DE
Gallenkamp, Bernd	Wuppertal		DE
Marhold, Albrecht	Leverkusen		DE
Wolfrum, Peter	Monheim		DE
Andersch, Wolfram	Bergish Gladbach		DE
Erdelen, Christoph	Leichlingen		DE
Turberg, Andreas	Haan		DE
Hansen, Olaf	Langenfeld		DE
Harder, Achim	Koln		DE

US-CL-CURRENT: 514/226.8; 514/363, 514/364, 544/53, 548/136, 548/143

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 12. Document ID: US 20030191091 A1

L4: Entry 12 of 17

File: PGPB

Oct 9, 2003

PGPUB-DOCUMENT-NUMBER: 20030191091  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20030191091 A1

TITLE: Use of riboflavin and flavin derivatives as chitinase inhibitors

PUBLICATION-DATE: October 9, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
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Turberg, Andreas	Haan	DE
Gutsmann, Volker	Leichlingen	DE
Omura, Satoshi	Setagaya-ku	JP
Shiomi, Kazuro	Shibuya-ku	JP

US-CL-CURRENT: 514/81; 514/250

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 13. Document ID: US 20030187259 A1

L4: Entry 13 of 17

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030187259

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030187259 A1

TITLE: Heterocyclic fluoroalkenyl thioethers and the use thereof as pesticides (IV)

PUBLICATION-DATE: October 2, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kraatz, Udo	Leverkusen		DE
Gallenkamp, Bernd	Wuppertal		DE
Marhold, Albrecht	Leverkusen		DE
Wolfrim, Peter	Monheim		DE
Andersch, Wolfram	Gladbach		DE
Erdelen, Christoph	Leichlingen		DE
Turberg, Andreas	Haan		DE
Hansen, Olaf	Langenfeld		DE
Harder, Achim	Koln		DE

US-CL-CURRENT: 544/239; 544/315, 546/290, 548/127, 548/165, 548/182, 548/217

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 14. Document ID: US 20030166237 A1

L4: Entry 14 of 17

File: PGPB

Sep 4, 2003

PGPUB-DOCUMENT-NUMBER: 20030166237

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030166237 A1

TITLE: Antifouling paint composition comprising rosin and enzyme

PUBLICATION-DATE: September 4, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Allermann, Knud	Rungsted Kyst		DK
Schneider, Ib	Copenhagen		DK

US-CL-CURRENT: 435/204; 106/16, 435/200, 435/222

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 15. Document ID: US 20020106361 A1

L4: Entry 15 of 17

File: PGPB

Aug 8, 2002

PGPUB-DOCUMENT-NUMBER: 20020106361

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020106361 A1

TITLE: Composition

PUBLICATION-DATE: August 8, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Poulsen, Charlotte Horsmans	Brabrand		DK
Kragh, Karsten Matthias	Viby J,		DK

US-CL-CURRENT: 424/94.4; 504/117, 523/105

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 16. Document ID: US 20020013385 A1

L4: Entry 16 of 17

File: PGPB

Jan 31, 2002

PGPUB-DOCUMENT-NUMBER: 20020013385

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020013385 A1

TITLE: Antifouling coating composition

PUBLICATION-DATE: January 31, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Simendinger, William H. III	Raleigh	NC	US

US-CL-CURRENT: 523/122; 524/251, 524/394

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 17. Document ID: US 20020010228 A1

L4: Entry 17 of 17

File: PGPB

Jan 24, 2002

PGPUB-DOCUMENT-NUMBER: 20020010228

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020010228 A1

TITLE: Antifouling coating composition

PUBLICATION-DATE: January 24, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Simendinger, William H. III	Raleigh	NC	US

US-CL-CURRENT: 523/122; 524/251, 524/394

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw De
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